INDEX OF SUBJECTS

Agricultural Project Management: Monitoring and Control of Implementation, by Peter Smith, reviewed by Simon Maxwell, 410

Alfisol, forest, of south western Nigeria and the effects of NPK fertilizer on tuber yield, starch content and dry matter accumulation of white guinea yam (Kayode), 389

Alfisols of the Indian semi-arid tropics and evaluations of alternate cropping systems (Reddy and Willey), 271

Allelopathy, by Elroy L. Rice, reviewed by R. J. Chancellor, 298

Analysis methods and a design to monitor crop growth conditions illustrated with sorghum screening trials for resistance to *Striga* (Gilliver, Vasudeva Rao and Venkateswarlu), 233

Arachis hypogaea, see Groundnuts

Biology of Rice, ed. by S. Tsunoda and N. Takahashi, reviewed by R. B. Austin, 187

Booker Tropical Soil Manual: a Handbook for Soil Survey and Agricultural Land Evaluation in the Tropics and Subtropics, ed. by J. R. Landon, reviewed by P. H. T. Beckett, 297

Brussels sprouts and cabbage intercropping, an agronomic and economic study (Salter, Akehurst and Morris), 153

Cabbage and Brussels sprouts intercropping, an agronomic and economic study (Salter, Akehurst and Morris), 153

Camellia sinensis, see Tea

Cereal Production, ed. by E. J. Gallagher, reviewed by F. G. H. Lupton, 410

Cereals and the role of fertilizer management in the development and expression of drought stress under Mediterranean environmental conditions (Keatinge, Neate and Shepherd), 209

Coconut and density related yield functions: an empirical estimation procedure (de Silva and Tisdell), 259

Coconut Research and Development, ed. by N. M. Nayar, reviewed by R. W. Smith, 79

Cocos nucifera, see Coconut

Cocoyam and the grain yield potential of some diverse maize morphotypes when intercropped (Ayuk-Takem and Chhedda), 145

Coffee, stomatal responses to environmental variables in shade and sun grown plants in Mexico (Fanjul, Arreola-Rodriguez and Mendez-Castrejon), 249

Colocynthis vulgaris, see Melon

Corn–soyabean intercrop density studies. I. Yield complementarity (Putnam, Herbert and Vargas), 41

Cowpea response to spacing in the savanna and rainforest zones of Nigeria (Kayode and Odulaja), 291

Cultivations and soil movement in long-term field experiments. I. A model for approximating soil movement in one horizontal dimension by repeated tillage (Sibbesen, Andersen, Andersen and Flensted-Jensen), 101; II. How to estimate the two-dimensional movement of substances accumulating in the soil (Sibbesen and Andersen), 109

Density of melon population and the effects on intercropped maize and melon (Wahua), 281

Density of population and row arrangement studies of potato cultivars in a sugarcane and potato intercropping system in north central India (Verma, Chauhan and Singh), 321

Density related yield functions for coconut: an empirical estimation procedure (de Silva and Tisdell), 259

Density studies of intercropped corn and soyabean (Putnam, Herbert and Vargas), 41

Design and methods of analysis to monitor crop growth conditions illustrated with sorghum screening trials for resistance to *Striga* (Gilliver, Vasudeva Rao and Venkateswarlu), 233

Dioscorea rotundata, see White guinea yam and White yam

Directory of Important World Honey Sources, by E. Crane, P. Walker and R. Day, reviewed by R. J. Douthwaite, 298

Drought stress in cereal crops under Mediterranean environmental conditions and the role of fertilizer management in its development and expression (Keatinge, Neate and Shepherd), 209
Dry matter production, partitioning and yields of clonal tea in Kenya as affected by pruning height (Magambo and Waithaka), 67

Ecodevelopment in Tanzania, by B. Glaeser, reviewed by David Gibbon, 297
Ecology of Tropical Food Crops (The), by M. J. T. Norman, C. J. Pearson and P. G. E. Searle, reviewed by R. W. Willey, 409
Economic and agronomic study of intercropping Brussels sprouts and cabbage (Salter, Akehurst and Morris), 153
Edible Aroids, ed. by S. Chandra, reviewed by N. W. Simmonds, 299
Effective and Staple Land Equivalent Ratios, an examination (Riley), 369
Embryo protein synthesis as the basis of the development of a laboratory screening technique for the assessment of high-temperature susceptibility during germination of sorghum (Ougham and Stoddart), 343
Energy and Agriculture: their Interacting Futures, ed. by Maurice Levy and John L. Robinson, reviewed by C. R. W. Spedding, 80
Environment genotype interactions and the identification of adaptable cultivars of upland rice in south-western Nigeria (Oyedokun), 53
Error variance in field experiments and the importance of lay-out in its determination (Roberts), 223
Evolution of grain legumes. II. Old and New World pulses of lesser economic importance (Smartt), 1; III. Pulses in the genus *Vigna* (Smartt), 87; IV. Pulses in the genus *Phaseolus* (Smartt), 193; V. The oilseeds (Smartt), 305

Fertilizer management, its role in the development and expression of crop drought stress in cereals under Mediterranean environmental conditions (Keatinge, Neate and Shepherd), 209
Fertilizer, NPK, effects on tuber yield, starch content and dry matter accumulation of white guinea yam in a forest Alfisol of south western Nigeria (Kayode), 389
Fertilizer placement methods for white yam (Nwinyi and Enwezor), 73
Field Problems in Tropical Rice, by staff of the International Rice Research Institute, reviewed by N. W. Simmonds, 81
Flooding and Plant Growth, ed. by T. T. Kozlowski, reviewed by P. J. Gregory, 410
Food and Energy Resources, ed. by D. Pimentel and C. W. Hall, reviewed by C. R. W. Spedding, 188
Food value and yield of rainfed sunflower and companion legumes as influenced by intercropping (Narwal and Malik), 395
Fox-tail millet productivity under rain-fed conditions and the balance between leaf area and photosynthetic activity (Sashidhar, Prasad, Patil, Udaya Kumar and Krishna Sastry), 241

Genotype environment interactions and the identification of adaptable cultivars of upland rice in south-western Nigeria (Oyedokun), 53
Germination of sorghum and the assessment of its high-temperature susceptibility, development of a laboratory screening technique based on embryo protein synthesis (Ougham and Stoddart), 343
Gezira, irrigated, and the growth and water relations of groundnuts in two contrasting years (Ishag, Fadl, Adam and Osman), 403
Grain legumes, their evolution. II. Old and New World pulses of lesser economic importance (Smartt), 1; III. Pulses in the genus *Vigna* (Smartt), 87; IV. Pulses in the genus *Phaseolus* (Smartt), 193; V. The oilseeds (Smartt), 305
Grain yield potential of some diverse maize morphotypes intercropped with cocoyam (Ayuk-Takem and Chhedda), 145
Grass mulches and the use of Stigter's ratio in expressing their thermal efficiency (Othieno, Stigter and Mwampaja), 169
Groundnuts, growth and water relations in two contrasting years in the irrigated Gezira (Ishag, Fadl, Adam and Osman), 403
Growth and water relations of groundnuts in two contrasting years in the irrigated Gezira (Ishag, Fadl, Adam and Osman), 403
Growth and yield of tomatoes as affected by intercropping, mulching and staking (Olasantan), 135

Guide for the Hydroponic and Soil-less Culture Grower (A), by J. Benton Jones Jr, reviewed by G. W. Winsor, 80

Harvesting policies for tea in Malawi (Palmer-Jones), 357

Higher Yielding Human Systems for Agriculture, ed. by William Foote Whyte and Damon Boynton, reviewed by Ian Carruthers, 80

India, north central, studies on row arrangement and population densities of potato cultivars in a sugarcane and potato intercropping system (Verma, Chauhan and Singh), 321

Indian semi-arid tropics, evaluations of alternate cropping systems for Alfisols (Reddy and Willey), 271

Inoculation with nitrogen-fixing bacteria, the response of pearl millet cultivars (Wani, Chandrapalaiah and Dart), 175

Intercropped cocoyam and maize, effect on grain yield potential of diverse maize morphotypes (Ayuk-Takem and Chhedda), 145

Intercropped corn–soyabean density studies. I. Yield complementarity (Putnam, Herbert and Vargas), 41

Intercropped maize and melon and the effects of melon population density (Wahua), 281

Intercropping advantages, their evaluation and presentation (Willey), 119

Intercropping and its influence on the yield and food value of rainfed sunflower and companion legumes (Narwal and Malik), 395

Intercropping Brussels sprouts and cabbage, an agronomic and economic study (Salter, Akehurst and Morris), 153

Intercropping, mulching and staking effects on growth and yield of tomatoes (Olasantan), 135

Intercropping sugarcane and potato in north central India, studies on row arrangement and population densities of the potato cultivars (Verma, Chauhan and Singh), 321

Iron pyrites, organic materials and micronutrients, their effect on yield of rice and wheat and on amelioration of sodic soil (Tiwari and Kumar), 329

Irrigated Gezira and the growth and water relations of groundnuts in two contrasting years (Ishag, Fadl, Adam and Osman), 403

Isotopes and Radiation in Agricultural Science, ed. by M. F. L'Annunziata and J. O. Legg, reviewed by R. P. Martin, 297

Kenya, the effect of pruning at different heights on yields, dry matter production and partitioning in clonal tea in (Magambo and Waithaka), 67

Land Equivalent Ratios, Staple and Effective, an examination (Riley), 369

Lay-out of field experiments and its importance in determining error variance (Roberts), 223

Leaf area and photosynthetic activity, their balance in determining productivity of fox-tail millet under rain-fed conditions (Sashidhar, Prasad, Patil, Udaya Kumar and Krishna Sastry), 241

Legumes and sunflower yield and food value under rainfed conditions as influenced by intercropping (Narwal and Malik), 395

Legumes, grain, their evolution. II. Old and New World pulses of lesser economic importance (Smartt), 1; III. Pulses in the genus *Vigna* (Smartt), 87; IV. Pulses in the genus *Phaseolus* (Smartt), 193; V. The oilseeds (Smartt), 305

Maize and melon intercropped and the effects of melon population density (Wahua), 281

Maize, grain yield potential of some diverse morphotypes when intercropped with cocoyam (Ayuk-Takem and Chhedda), 145

Maize response to planting dates in a tropical rainforest location (Fakorede), 19

Maize response to planting dates in a tropical rainforest location as affected by weather factors (Fakorede and Opeke), 31

Malawi, harvesting policies for tea (Palmer-Jones), 357

Mathematical Models in Agriculture, by J. France and J. H. M. Thornley, reviewed by H. D. Patterson, 79

Mediterranean environmental conditions and the role of fertilizer management in the development and expression of crop drought stress in cereals (Keatinge, Neate and Shepherd), 209

Melon population density, its effects on intercropped maize and melon (Wahua), 281

Mexico, stomatal responses to environmental variables in shade and sun grown coffee plants (Fanjul, Arreola-Rodriguez and Mendez-Castrejon), 249
Micromorphology of Soils, by E. A. Fitzpatrick, reviewed by K. Simpson, 187
Micronutrients, iron pyrites and organic materials, their effect on yield of rice and wheat and on amelioration of sodic soil (Tiwari and Kumar), 329
Mulches of grass and the use of Stigter's ratio in expressing their thermal efficiency (Othieno, Stigter and Mwampaja), 169
Mulching, staking and intercropping effects on growth and yield of tomatoes (Olasantan), 135

Nigeria, response of cowpea to spacing in the savanna and rainforest zones (Kayode and Odulaja), 291
Nigeria, south-western, and the identification of adaptable cultivars of upland rice from genotype environment interactions (Oyedokun), 53
Nigeria, south-western, the effects of NPK fertilizer on tuber yield, starch content and dry matter accumulation of white guinea yam in a forest Alfisol (Kayode), 389
Nitrogen-fixing bacteria, the response of pearl millet cultivars to inoculation (Wani, Chandrapalaiah and Dart), 175

Organic materials, micronutrients and iron pyrites, their effect on yield of rice and wheat and on amelioration of sodic soil (Tiwari and Kumar), 329
Oryza sativa, see Rice

Paprika (The), by András Somos, reviewed by Barbara Pickersgill, 411
Pathology of Tropical Food Legumes (The), by D. J. Allen, reviewed by C. C. Bernier, 188
Pearl millet and sorghum, a laboratory technique to screen seedling emergence at high soil temperature (Soman and Peacock), 335
Pearl millet, the response of cultivars to inoculation with nitrogen-fixing bacteria (Wani, Chandrapalaiah and Dart), 175
Petiolar resistance, root system and development of a root abstraction equation for the water relations of winter wheat (McGowan and Tzimas), 377
Photosynthetic activity and leaf area, their balance in determining productivity of fox-tail millet under rain-fed conditions (Sashidhar, Prasad, Patil, Udaya Kumar and Krishna Sastry, 241
Physiology of Tropical Field Crops (The), ed. by P. R. Goldsworthy and N. M. Fisher, reviewed by Donald S. H. Drennan, 409
Planting dates and the response of maize in a tropical rainforest location (Fakorede), 19
Planting dates and the response of maize in a tropical rainforest location as affected by weather factors (Fakorede and Opeke), 31
Population density, *see* Density
Potato and sugarcane intercropping system in north central India, studies on row arrangement and population densities of the potato cultivars (Verma, Chauhan and Singh), 321
Potential Productivity of Field Crops under Different Environments, ed. by W. H. Smith and Stephen J. Banta, reviewed by J. P. Cooper, 187
Productivity of fox-tail millet under rain-fed conditions and the balance between leaf area and photosynthetic activity (Sashidhar, Prasad, Patil, Udaya Kumar and Krishna Sastry), 241
Pruning height effect on yields, dry matter production and partitioning in clonal tea in Kenya (Magambo and Waithaka), 67

Rain-fed conditions and the balance between leaf area and photosynthetic activity in determining productivity of fox-tail millet under rain-fed conditions (Sashidar, Prasad, Patil, Udaya Kumar and Krishna Sastry), 241
Rainforest and savanna zones of Nigeria and the response of cowpea to spacing (Kayode and Odulaja), 291
Rainforest location, tropical, response of maize to planting dates in (Fakorede), 19
Rainforest location, tropical, weather factors affecting the response of maize to planting dates in (Fakorede and Opeke), 31
Rice and wheat yield, the effect of iron pyrites, organic materials and micronutrients on this and on amelioration of sodic soil (Tiwari and Kumar), 329
Rice genotype environment interactions and the identification of adaptable upland

cultivars in south-western Nigeria (Oyedokun), 53
Root and shoot growth and emergence of seedlings as influenced by seedbed tilth (Malik, Jhorar and Dahiya), 59
Root and shoot yields of sweet potato as affected by shoot removal (Dahniya, Hahn and Oputa), 183
Root system, petiolar resistance and development of a root abstraction equation for the water relations of winter wheat (McGowan and Tzimas), 377
Row arrangement and population density studies of potato cultivars in a sugarcane and potato intercropping system in north central India (Verma, Chauhan and Singh), 321

Savanna and rainforest zones of Nigeria and the response of cowpea to spacing (Kayode and Odulaja), 291
Screening seedling emergence of sorghum and pearl millet at high soil temperature, a laboratory technique (Soman and Peacock), 335
Screening sorghum for high-temperature susceptibility during germination, development of a laboratory technique based on embryo protein synthesis (Ougham and Stoddart), 343
Screening sorghum for resistance to *Striga*, illustrating a design and methods of analysis to monitor crop growth conditions (Gilliver, Vasudeva Rao and Venkateswarlu), 233
Seedbed tilth and the emergence and root and shoot growth of seedlings of some crops (Malik, Jhorar and Dahiya), 59
Seedling emergence and root and shoot growth as influenced by seedbed tilth (Malik, Jhorar and Dahiya), 59
Seedling emergence of sorghum and pearl millet at high soil temperature, a laboratory screening technique (Soman and Peacock), 335
Setaria italica, see Fox-tail millet
Shoot and root growth and emergence of seedlings as influenced by seedbed tilth (Malik, Jhorar and Dahiya), 59
Shoot and root yields of sweet potato as affected by shoot removal (Dahniya, Hahn and Oputa), 183
Sodic soil amelioration, the effect of iron pyrites, organic materials and micronutrients on this and on yield of rice and wheat (Tiwari and Kumar), 329
Soil movement in long-term field experiments as a result of cultivations. I. A model for approximating soil movement in one horizontal dimension by repeated tillage (Sibbesen, Andersen, Andersen and Flensted-Jensen), 101; II. How to estimate the two-dimensional movement of substances accumulating in the soil (Sibbesen and Andersen), 109
Soil Productivity Aspects of Agroforestry, by P. K. R. Nair, reviewed by M. G. R. Cannell, 299
Soil temperature, a laboratory technique to screen seedling emergence of sorghum and pearl millet when this is high (Soman and Peacock), 335
Sorghum and pearl millet, a laboratory technique to screen seedling emergence at high soil temperature (Soman and Peacock), 335
Sorghum bicolor, see Sorghum
Sorghum, development of a laboratory screening technique based on embryo protein synthesis for the assessment of high-temperature susceptibility during germination (Ougham and Stoddart), 343
Sorghum screening trials for resistance to *Striga*, illustrating a design and methods of analysis to monitor crop growth conditions (Gilliver, Vasudeva Rao and Venkateswarlu), 233
Soyabean–corn intercrop density studies. I. Yield complementarity (Putnam, Herbert and Vargas), 41
Spacing effects on cowpea in the savanna and rainforest zones of Nigeria (Kayode and Odulaja), 291
Staking, mulching and intercropping effects on growth and yield of tomatoes (Olasantan), 135
Staple and Effective Land Equivalent Ratios, an examination (Riley), 369
Starch content, dry matter accumulation and tuber yield of white guinea yam in a forest Alfisol of south western Nigeria in response to NPK fertilizer (Kayode), 389
Stigter's ratio, its use in expressing the thermal efficiency of grass mulches (Othieno, Stigter and Mwampaja), 169
Stomatal responses to environmental variables in shade and sun grown coffee plants in Mexico (Fanjul, Arreola-Rodriguez and Mendez-Castrejon), 249
Striga: Biology and Control, ed. by E. S. Ayensu, H. Doggett, R. D. Keynes, J.

Marton-Lefevre, L. J. Musselman, C. Parker and A. Pickering, reviewed by R. W. Smith, 411

Striga resistance of sorghum in screening trials, illustrating a design and methods of analysis to monitor crop growth conditions (Gilliver, Vasudeva Rao and Venkateswarlu), 233

Sugarcane and potato intercropping system in north central India, studies on row arrangement and population densities of the potato cultivars (Verma, Chauhan and Singh), 321

Sunflower and companion legumes, their yield and food value under rainfed conditions as influenced by intercropping (Narwal and Malik), 395

Sweet potato, the effect of shoot removal on shoot and root yields (Dahniya, Hahn and Oputa), 183

Tea, clonal, yields, dry matter production and partioning as affected by pruning height in Kenya (Magambo and Waithaka), 67

Tea in Malawi, harvesting policies (Palmer-Jones), 357

Thermal efficiency of grass mulches and the use of Stigter's ratio (Othieno, Stigter and Mwampaja), 169

Tilth of the seedbed and the emergence and root and shoot growth of seedlings of some crops (Malik, Jhorar and Dahiya), 59

Tomato growth and yield as affected by intercropping, mulching and staking (Olasantan), 135

Tropical rainforest location, the response of maize to planting dates in (Fakorede), 19

Tropical rainforest location, weather factors affecting the response of maize to planting dates in (Fakorede and Opeke), 31

Upland rice genotype environment interactions and the identification of adaptable upland cultivars in south-western Nigeria (Oyedokun), 53

Vigna unguiculata, see Cowpea

Water relations and growth of groundnuts in two contrasting years in the irrigated Gezira (Ishag, Fadl, Adam and Osman), 403

Water relations of winter wheat: the root system, petiolar resistance and development of a root abstraction equation (McGowan and Tzimas), 377

Weather factors affecting the response of maize to planting dates in a tropical rainforest location (Fakorede and Opeke), 31

Wheat and rice yield, the effect of iron pyrites, organic materials and micronutrients on this and on amelioration of sodic soil (Tiwari and Kumar), 329

Wheat, winter, water relations: the root system, petiolar resistance and development of a root abstraction equation (McGowan and Tzimas), 377

White guinea yam, effects of NPK fertilizer on tuber yield, starch content and dry matter accumulation in a forest Alfisol of south western Nigeria (Kayode), 389

White yam, evaluation of fertilizer placement methods (Nwinyi and Enwezor), 73

Xanthosoma sagittifolium, see Cocoyam

Yield and food value of rainfed sunflower and companion legumes as influenced by intercropping (Narwal and Malik), 395

Yield and growth of tomatoes as affected by intercropping, mulching and staking (Olasantan), 135

Yield complementarity of corn and soyabean intercrops as affected by planting density (Putnam, Herbert and Vargas), 41

Yield functions for coconut as related to density: an empirical estimation procedure (de Silva and Tisdell), 259

Yield of rice and wheat, the effect of iron pyrites, organic materials and micronutrients on this and on amelioration of sodic soil (Tiwari and Kumar), 329

Yield of tubers, starch content and dry matter accumulation of white guinea yam in a forest Alfisol of south western Nigeria in response to NPK fertilizer (Kayode), 389

Yield potential of some diverse maize morphotypes intercropped with cocoyam (Ayuk-Takem and Chhedda), 145

Yields, dry matter production and partitioning in clonal tea in Kenya as affected by pruning height (Magambo and Waithaka), 67

Yields of the root and shoot of sweet potato as affected by shoot removal (Dahniya, Hahn and Oputa), 183

Zea mays, see Maize

INDEX OF AUTHORS

Adam, H. S., *see* Ishag, H. M.
Akehurst, Jayne M., *see* Salter, P. J.
Andersen, C. E., *see* Sibbesen, E.
Andersen, S., *see* Sibbesen, E.
Arreola-Rodriguez, R., *see* Fanjul, Luis.
Austin, R. B. Review of *Biology of Rice*, ed. by S. Tsunoda and N. Takahashi, 187
Ayuk-Takem, J. A. and Chhedda, H. R. Grain yield potential of some diverse maize (*Zea mays* L.) morphotypes intercropped with cocoyam (*Xanthosoma sagittifolium*), 145

Beckett, P. H. T. Review of *Booker Tropical Soil Manual: a Handbook for Soil Survey and Agricultural Land Evaluation in the Tropics and Subtropics*, ed. by J. R. Landon, 297
Bernier, C. C. Review of *The Pathology of Tropical Food Legumes*, by D. J. Allen, 188

Cannell, M. G. R. Review of *Soil Productivity Aspects of Agroforestry*, by P. K. R. Nair, 299
Carruthers, Ian. Review of *Higher Yielding Human Systems for Agriculture*, ed. by William Foote Whyte and Damon Boynton, 80
Chancellor, R. J. Review of *Allelopathy*, by Elroy L. Rice, 298
Chandrapalaiah, S., *see* Wani, S. P.
Chauhan, R. S., *see* Verma, R. S.
Chhedda, H. R., *see* Ayuk-Takem, J. A.
Cooper, J. P. Review of *Potential Productivity of Field Crops under Different Environments*, ed. by W. H. Smith and Stephen J. Banta, 187

Dahiya, I. S., *see* Malik, R. S.
Dahniya, M. T., Hahn, S. K. and Oputa, C. O. Effect of shoot removal on shoot and root yields of sweet potato, 183
Dart, P. J., *see* Wani, S. P.
De Silva, N. T. M. H. and Tisdell, C. A. Density related yield functions for coconut (*Cocos nucifera*): an empirical estimation procedure, 259
Douthwaite, R. J. Review of *Directory of Important World Honey Sources*, by E. Crane, P. Walker and R. Day, 298
Drennan, Donald S. H. Review of *The Physiology of Tropical Field Crops*, ed. by P. R. Goldsworthy and N. M. Fisher, 409

Enwezor, W. O., *see* Nwinyi, S. C. O.

Fadl, Osman A., *see* Ishag, H. M.
Fakorede, M. A. B. Response of maize to planting dates in a tropical rainforest location, 19
Fakorede, M. A. B. and Opeke, B. O. Weather factors affecting the response of maize to planting dates in a tropical rainforest location, 31
Fanjul, Luis, Arreola-Rodriguez, R. and Mendez-Castrejon, M. P. Stomatal responses to environmental variables in shade and sun grown coffee plants in Mexico, 249
Flensted-Jensen, M., *see* Sibbesen, E.

Gibbon, David. Review of *Ecodevelopment in Tanzania*, by B. Glaeser, 297
Gilliver, B., Vasudeva Rao, M. J. and Venkateswarlu, P. A design and methods of analysis to monitor crop growth conditions illustrated with sorghum screening trials for resistance to *Striga*, 233
Gregory, P. J. Review of *Flooding and Plant Growth*, ed. by T. T. Kozlowski, 410

Hahn, S. K., *see* Dahniya, M. T.
Herbert, S. J., *see* Putnam, D. H.

Ishag, H. M., Fadl, Osman A., Adam, H. S. and Osman, A. K. Growth and water relations of groundnuts (*Arachis hypogaea*) in two contrasting years in the irrigated Gezira, 403

Jhorar, B. S., *see* Malik, R. S.

Kayode, G. O. Effects of NPK fertilizer on tuber yield, starch content and dry matter accumulation of white guinea yam (*Dioscorea rotundata*) in a forest Alfisol of south western Nigeria, 389

Kayode, G. O. and Odulaja, A. Response of cowpea (*Vigna unguiculata*) to spacing in the savanna and rainforest zones of Nigeria, 291
Keatinge, J. D. H., Neate, P. J. H. and Shepherd, K. D. The role of fertilizer management in the development and expression of crop drought stress in cereals under Mediterranean environmental conditions, 209
Krishna Sastry, K. S., *see* Sashidhar, V. R.
Kumar, Anil, *see* Tiwari, K. N.

Lupton, F. G. H. Review of *Cereal Production*, ed. by E. J. Gallagher, 410

Magambo, M. J. S. and Waithaka, Kimani. The effect of pruning at different heights on yields, dry matter production and partitioning in clonal tea (*Camellia sinensis*) in Kenya, 67
Malik, D. S., *see* Narwal, S. S.
Malik, R. S., Jhorar, B. S. and Dahiya, I. S. Influence of seedbed tilth on emergence and root and shoot growth of seedlings of some crops, 59
Martin, R. P. Review of *Isotopes and Radiation in Agricultural Science*, ed. by M. F. L'Annunziata and J. O. Legg, 297
Maxwell, Simon. Review of *Agricultural Project Management: Monitoring and Control of Implementation*, by Peter Smith, 410
McGowan, M. and Tzimas, E. Water relations of winter wheat: the root system, petiolar resistance and development of a root abstraction equation, 377
Mendez-Castrejon, M. P., *see* Fanjul, Luis
Morris, G. E. L., *see* Salter, P. J.
Mwampaja, A. R., *see* Othieno, C. O.

Narwal, S. S. and Malik, D. S. Influence of intercropping on the yield and food value of rainfed sunflower and companion legumes, 395
Neate, P. J. H., *see* Keatinge, J. D. H.
Nwinyi, S. C. O. and Enwezor, W. O. Evaluation of fertilizer placement methods for white yam (*Dioscorea rotundata*), 73

Odulaja, A., *see* Kayode, G. O.
Olasantan, F. O. Effects of intercropping, mulching and staking on growth and yield of tomatoes, 135
Opeke, B. O., *see* Fakorede, M. A. B.
Oputa, C. O., *see* Dahniya, M. T.
Osman, A. K., *see* Ishag, H. M.
Othieno, C. O., Stigter, C. J. and Mwampaja, A. R. On the use of Stigter's ratio in expressing the thermal efficiency of grass mulches, 169
Ougham, H. J. and Stoddart, J. L. Development of a laboratory screening technique, based on embryo protein synthesis, for the assessment of high-temperature susceptibility during germination of *Sorghum bicolor*, 343
Oyedokun, J. B. Genotype environment interactions and the identification of adaptable cultivars of upland rice (*Oryza sativa*) in south-western Nigeria, 53

Palmer-Jones, R. W. Harvesting policies for tea in Malawi, 357
Patil, S. J., *see* Sashidhar, V. R.
Patterson, H. D. Review of *Mathematical Models in Agriculture*, by J. France and J. H. M. Thornley, 79
Peacock, J. M., *see* Soman, P.
Pickersgill, Barbara. Review of *The Paprika*, by András Somos, 411
Prasad, T. G., *see* Sashidhar, V. R.
Putnam, D. H., Herbert, S. J. and Vargas, A. Intercropped corn-soyabean density studies. I. Yield complementarity, 41

Reddy, M. S. and Willey, R. W. Evaluations of alternate cropping systems for Alfisols of the Indian semi-arid tropics, 271
Riley, Janet. Examination of the Staple and Effective Land Equivalent Ratio, 369
Roberts, E. A. The importance of lay-out in determining error variance in field experiments, 223

Salter, P. J., Akehurst, Jayne M. and Morris, G. E. L. An agronomic and economic study of intercropping Brussels sprouts and summer cabbage, 153
Sashidhar, V. R., Prasad, T. G., Patil, S. J., Udaya Kumar, M. and Krishna Sastry, K. S. The balance between leaf area and photosynthetic activity in determining productivity of fox-tail millet (*Setaria italica*) under rain-fed conditions, 241
Shepherd, K. D., *see* Keatinge, J. D. H.
Sibbesen, E. and Andersen, C. E. Soil movement in long-term field experiments as a result of cultivations. II. How to estimate the two-dimensional movement of substances accumulating in the soil, 109
Sibbesen, E., Andersen, C. E., Andersen, S. and Flensted-Jensen, M. Soil movement in long-term field experiments as a

result of cultivations. I. A model for approximating soil movement in one horizontal dimension by repeated tillage, 101
Simmonds, N. W. Review of *Edible Aroids*, ed. by S. Chandra, 299
Simmonds, N. W. Review of *Field Problems in Tropical Rice*, by staff of the International Rice Research Institute, 81
Simpson, K. Review of *Micromorphology of Soils*, by E. A. Fitzpatrick, 187
Singh, R. N., *see* Verma, R. S.
Smartt, J. Evolution of grain legumes. II. Old and New World pulses of lesser economic importance, 1
Smartt, J. Evolution of grain legumes. III. Pulses in the genus *Vigna*, 87
Smartt, J. Evolution of grain legumes. IV. Pulses in the genus *Phaseolus*, 193
Smartt, J. Evolution of grain legumes. V. The oilseeds, 305
Smith, R. W. Review of *Coconut Research and Development*, ed. by N. M. Nayar, 79
Smith, R. W. Review of *Striga: Biology and Control*, ed. by E. S. Ayensu, H. Doggett, R. D. Keynes, J. Marton-Lefèvre, L. J. Musselman, C. Parker and A. Pickering, 411
Soman, P. and Peacock, J. M. A laboratory technique to screen seedling emergence of sorghum and pearl millet at high soil temperature, 335
Spedding, C. R. W. Review of *Energy and Agriculture: their Interacting Futures*, ed. by Maurice Levy and John L. Robinson, 80
Spedding, C. R. W. Review of *Food and Energy Resources*, ed. by D. Pimentel and C. W. Hall, 188
Stigter, C. J., *see* Othieno, C. O.
Stoddart, J. L., *see* Ougham, H. J.

Tisdall, C. A., *see* de Silva, N. T. M. H.
Tiwari, K. N. and Kumar, Anil. Effect of iron pyrites, organic materials and micronutrients on yield of rice and wheat and on amelioration of sodic soil, 329
Tzimas, E., *see* McGowan, M.

Udaya Kumar, M., *see* Sashidhar, V. R.

Vargas, A., *see* Putnam, D. H.
Vasudeva Rao, M. J., *see* Gilliver, B.
Venkateswarlu, P., *see* Gilliver, B.
Verma, R. S., Chauhan, R. S. and Singh, R. N. Studies on row arrangement and population densities of potato cultivars in a sugarcane and potato intercropping system in north central India, 321

Wahua, T. A. T. Effects of melon (*Colocynthis vulgaris*) population density on intercropped maize (*Zea mays*) and melon, 281
Waithaka, Kimani, *see* Magambo, M. J. S.
Wani, S. P., Chandrapalaiah, S. and Dart, P. J. Response of pearl millet cultivars to inoculation with nitrogen-fixing bacteria, 175
Willey, R. W. Review of *The Ecology of Tropical Food Crops*, by M. J. T. Norman, 409
Willey, R. W. Evaluation and presentation of intercropping advantages, 119
Willey, R. W., *see* Reddy, M. S.
Winsor, G. W. Review of *A Guide for the Hydroponic and Soil-less Culture Grower*, by J. Benton Jones Jr, 80